CECO

ceco-
meyer
steelforms

RECEIVED
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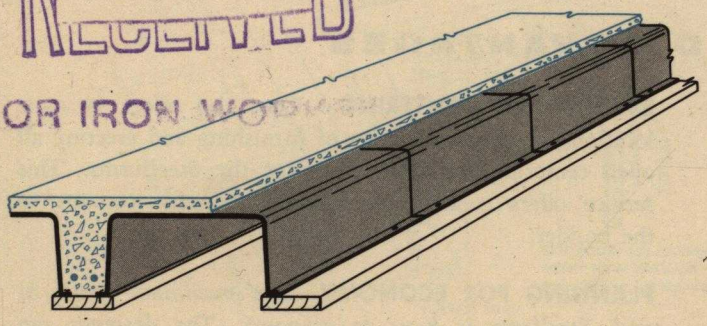
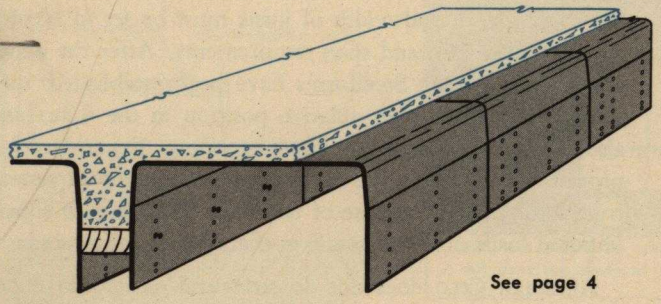
VICTOR IRON WORKS



See page 3

flange type

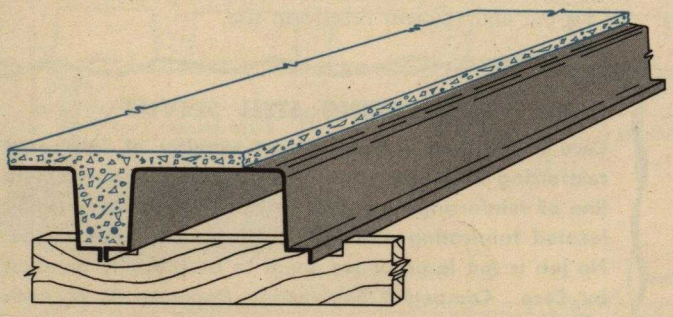
- The most popular type because of its versatility, simplicity, and flexibility of layout. Generally the most economical of all form types.
- Usually used where plaster or accoustical ceilings are to be provided.
- Eliminates need for sawing soffit forms to joist width and precisely locating their edges.
- Only one size of lumber is required for all centering components (except shores).
- All Steelforms are placed, aligned and nailed from top-side; an extremely simple operation.
- Joist depths are accurately determined and are positively fixed by Steelform depths.
- Two-way "waffle" construction is easily formed in dome sizes 20" x 20" and 30" x 30".
- Ideal for floors with underfloor electrification.



See page 4

adjustable type

- Often chosen for exposed joist ceilings because joist soffits are formed smoothly without flange marks.
- Joist lines are straight and true because the Steelforms are automatically aligned by the soffit forms.
- All standard joist depths are obtained from one set of Steelforms.
- Steelforms can be removed easily without removing soffit forms and shores.
- Can be used for floors with underfloor electrification.



See page 5

longform type

- All the underside concrete surfaces are formed smoothly against a one-piece Steelform without flange or lap marks between supports.
- This Steelform should be specified when good appearance is paramount for exposed concrete joist ceilings.
- Longforms are of one-piece construction and are custom-made for each project. Maximum Longform re-use without change of length, width or depth is essential for economy.
- Can be the most economical type of Steelform when enough re-uses are possible without deviation from typical layout.
- No shoring is required between beams and mid-span bridging joist (or between beams where spans are short).
- Early removal for re-use is possible by leaving the shores under the mid-span bridging joist.

CECO STEEL PRODUCTS CORPORATION 1956

A. I. A. File No. 16-A

the Company

Ceco Steel Products Corporation was founded 44 years ago, and has been built up through a sincere effort to manufacture only high quality products and to furnish a complete and dependable service to architects, structural engineers and contractors.

Possessing years of on-the-job experience, Ceco designers, engineers and executives are always ready to help you with your particular problems. Their practical background is unique among manufacturers: they grew up on the construction site, learned their business from the ground up.

Ceco products are wide in scope, covering many phases of the construction industry, thereby permitting such items to be purchased from the same reliable source. Included are steel and aluminum windows and screens, hollow-metal doors, steel joists and roof deck, metal lath and accessories, and metal roofing products.

SERVICES AND ADVANTAGES

NATIONWIDE DISTRIBUTION—Ceco is the largest supplier of removable Steelforms for concrete joist construction in the United States and its services are available to customers everywhere within this country through 28 strategically located offices. Concrete joist construction can be designed for almost any building in the United States with confidence that Ceco can provide Ceco-Meyer Steelforms for the job.

VARIETY OF TYPE—Almost any forming requirement can be met with one of the three types of Ceco-Meyer Steelforms.

AVAILABLE—Large stocks of Ceco-Meyer Steelforms are maintained throughout the country. Unusual requirements can be met by shifting stocks from various warehouses.

RUGGED—Ceco-Meyer Steelforms are made of heavy-gauge steel to serve for countless re-uses giving economy to the customer and assuring that the proper joist shape is obtained without danger of collapse during concreting. Rugged design also provides safety for the trades while working top-side.

STANDARD SIZES—Ceco-Meyer Steelforms are made to form all of the standard depths and spacings specified for concrete joist construction by the "Simplified Practice Recommendation R87-32," published by the U. S. Department of Commerce.

EXPERIENCE—Ceco pioneered removable Steelforms for joist construction beginning in 1912. Ceco's executives and sales engineers have had wide experience in all the phases of the building business—from conception of the plan to the finished product. Their accumulated experience is available to assure proper service and satisfaction to the customer.

STEELFORM RENTAL—Ceco-Meyer Steelforms are never sold but are handled on a lease or rental basis, usually including erection and removal. Quotations and contracts are generally lump sum for specific projects. Steelform erection and removal by Ceco's skilled and experienced erection crews assure the utmost economy and satisfactory results for the customer.

ERECTION OF CENTERING—Ceco also offers, in most locations, a complete service of furnishing and erecting all open centering for the support of the Steelforms. This service offers considerable convenience and economy to the builder.

PLANNING FOR ECONOMY—*The maximum re-use of each Steelform is basic to economy.* The designer can achieve real economy for concrete joist construction by establishing joist depths and spacings which allow the maximum re-use of Steelforms for all the floors—*including the roof.* Depth and width of joists must be set in accordance with the load and span requirements. After the depth and spacing of the Steelforms have been established, they should be used in their relative position in the floors and also the roof to obtain maximum economy. Experience has proved that changing the depth of the concrete joist system from floor to roof because of the usual difference in superimposed loads does not result in the savings anticipated.

Although Ceco does not do structural design, an experienced Ceco engineer will be glad to help with lay-out planning, selection of form type and other details in an effort to assure the customer of maximum utility, economy of lay-out and efficient Steelform use.

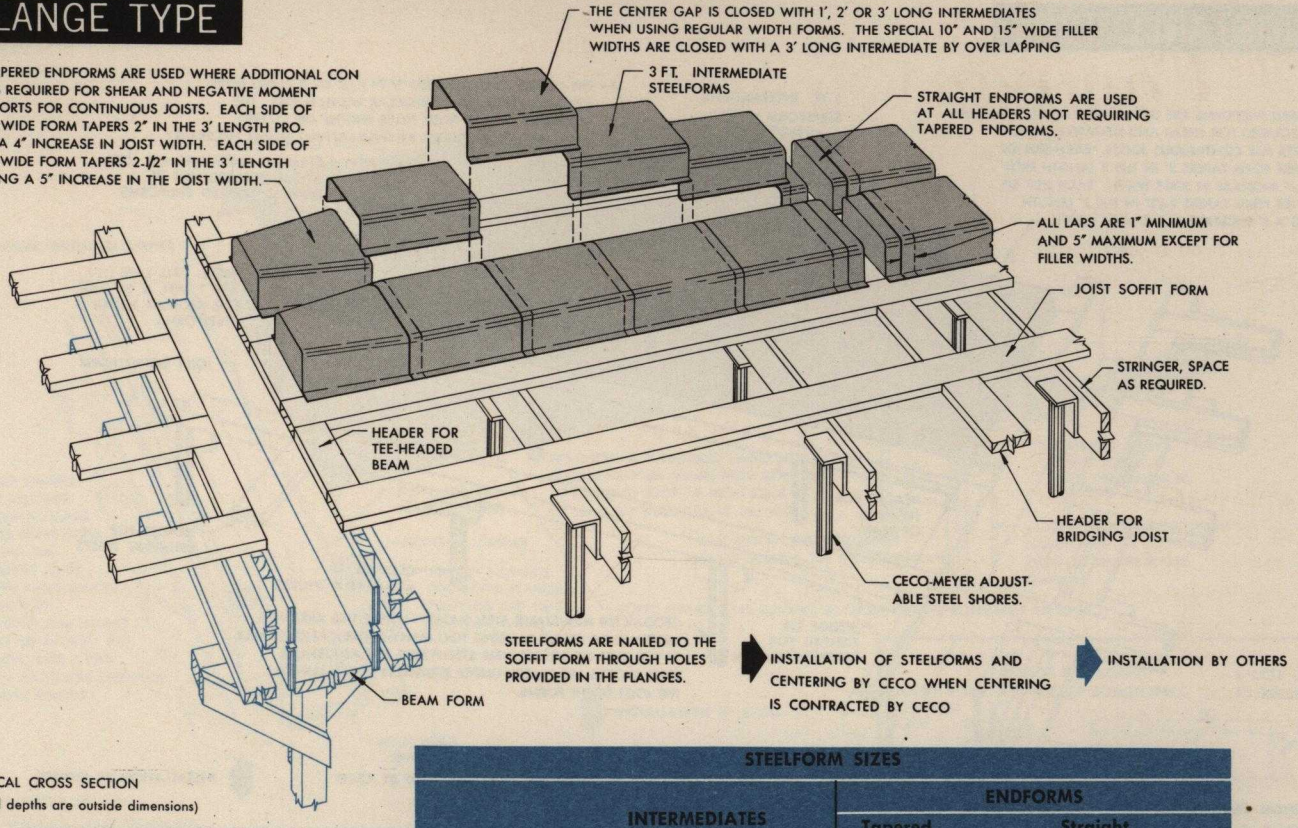
REINFORCING STEEL SERVICE

Ceco is the largest independent supplier of fabricated reinforcing steel for concrete and handles a complete line of reinforcing materials warehoused at strategically located fabricating plants throughout the United States. No job is too large or too small to be properly handled by Ceco. Competent Engineering Departments at each of our steel fabricating plants assure the customer that the designer's drawings and specifications are correctly interpreted and incorporated in accurate placement plans which greatly assist in the proper and accurate placement of reinforcing steel on the job.

Ceco's service assures that delivery of steel is coordinated with the contractor's schedule and that it is delivered on time. The majority of shipments are handled by Ceco's fleet of trucks.

FLANGE TYPE

FT. TAPERED ENDFORMS ARE USED WHERE ADDITIONAL CONCRETE IS REQUIRED FOR SHEAR AND NEGATIVE MOMENT AT SUPPORTS FOR CONTINUOUS JOISTS. EACH SIDE OF THE 20" WIDE FORM TAPERS 2" IN THE 3' LENGTH PROVIDING A 4" INCREASE IN JOIST WIDTH. EACH SIDE OF THE 30" WIDE FORM TAPERS 2-1/2" IN THE 3' LENGTH PROVIDING A 5" INCREASE IN THE JOIST WIDTH.

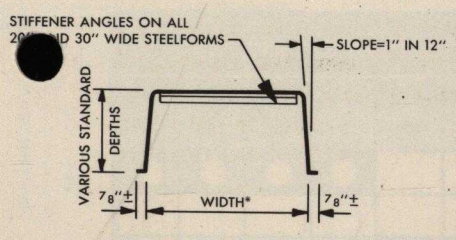

THE CENTER GAP IS CLOSED WITH 1', 2' OR 3' LONG INTERMEDIATES WHEN USING REGULAR WIDTH FORMS. THE SPECIAL 10" AND 15" WIDE FILLER WIDTHS ARE CLOSED WITH A 3' LONG INTERMEDIATE BY OVER LAPPING
3 FT. INTERMEDIATE STEELFORMS
STRAIGHT ENDFORMS ARE USED AT ALL HEADERS NOT REQUIRING TAPERED ENDFORMS.
ALL LAPS ARE 1" MINIMUM AND 5" MAXIMUM EXCEPT FOR FILLER WIDTHS.
JOIST SOFFIT FORM
STRINGER, SPACE AS REQUIRED.
HEADER FOR TEE-HEADED BEAM
HEADER FOR BRIDGING JOIST
CECO-MEYER ADJUSTABLE STEEL SHORES.
BEAM FORM

STEELFORMS ARE NAILED TO THE SOFFIT FORM THROUGH HOLES PROVIDED IN THE FLANGES.

INSTALLATION OF STEELFORMS AND CENTERING BY CECO WHEN CENTERING IS CONTRACTED BY CECO

INSTALLATION BY OTHERS

TYPICAL CROSS SECTION
(all widths and depths are outside dimensions)



*REGULAR WIDTHS, FOR FORMING REGULARLY SPACED JOISTS,=20" AND 30".

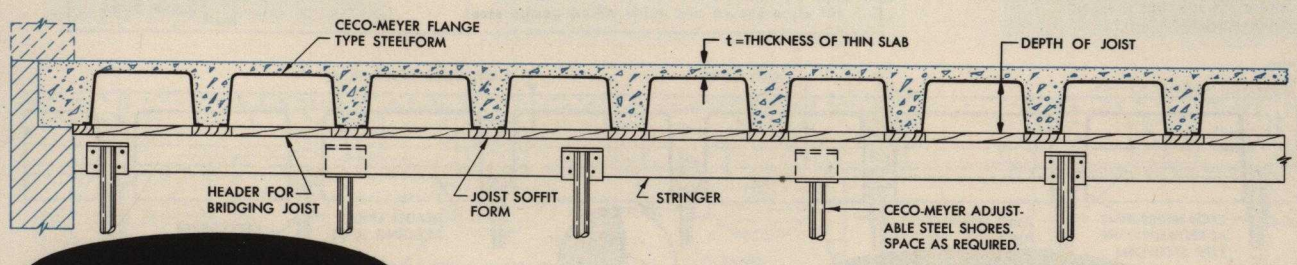
*FILLER WIDTHS, FOR USE ONLY IN FILLING OUT NON-MODULAR BAYS AND SPACES,=10" AND 15".

STEELFORM SIZES

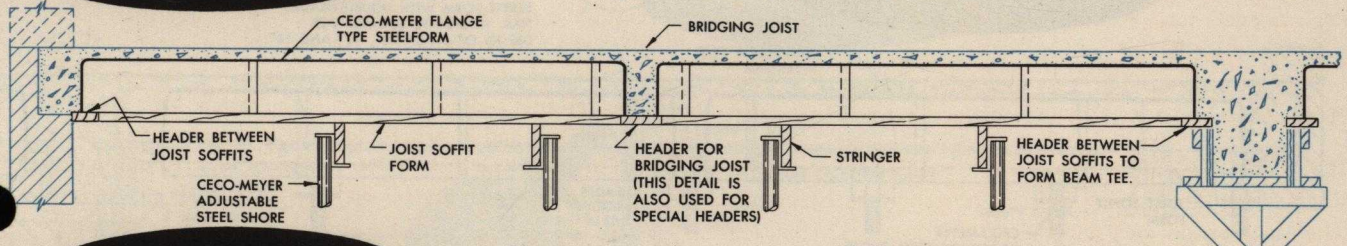
WIDTH → / LENGTH ↓	INTERMEDIATES				ENDFORMS Tapered		ENDFORMS Straight			
	10"	15"	20"	30"	20"	30"	10"	15"	20"	30"
6"							●	●	●	●
1'			●	●						
2'			●	●						
3'	●	●	●	●	●	●				

All sizes shown are made in depths of 6", 8", 10", 12" and 14".
All sizes are made of 16 gauge steel or heavier.

● Stock Sizes



section across joists


CECO-MEYER FLANGE TYPE STEELFORM
BRIDGING JOIST
HEADER BETWEEN JOIST SOFFITS
CECO-MEYER ADJUSTABLE STEEL SHORE
JOIST SOFFIT FORM
HEADER FOR BRIDGING JOIST (THIS DETAIL IS ALSO USED FOR SPECIAL HEADERS)
STRINGER
HEADER BETWEEN JOIST SOFFITS TO FORM BEAM TEE.

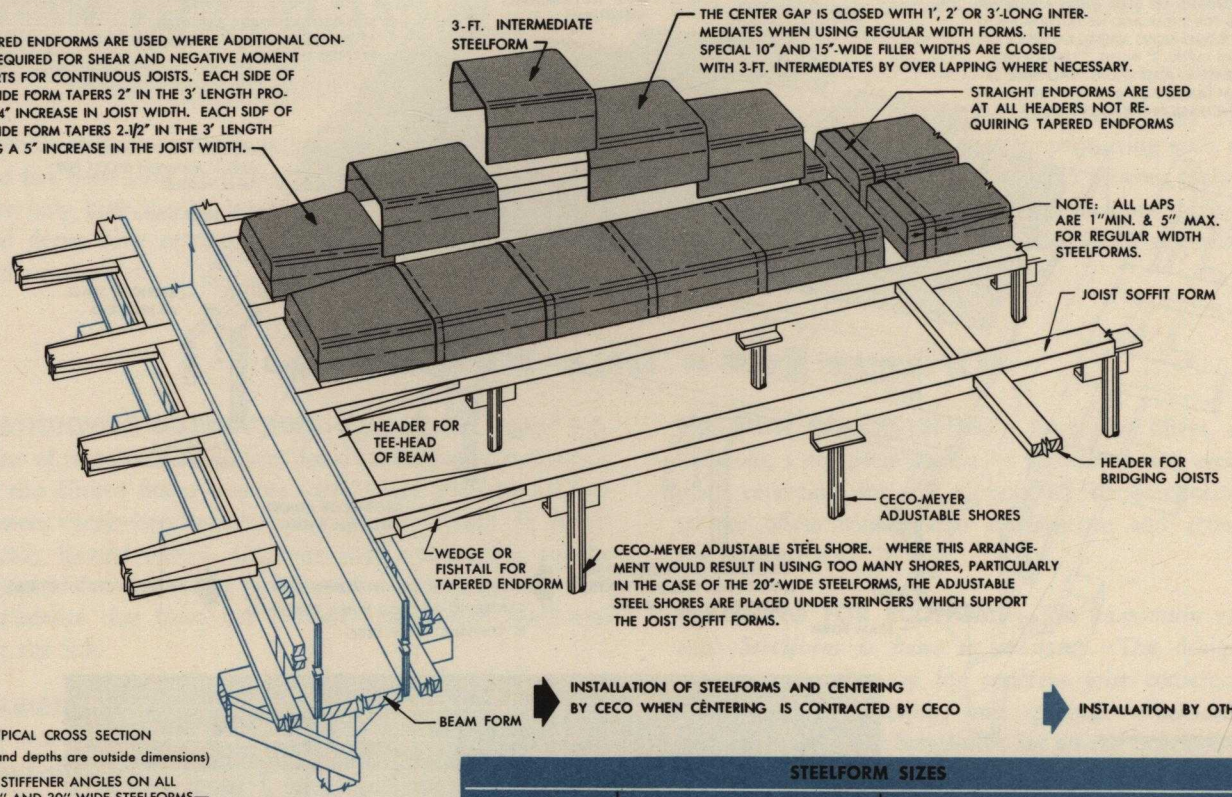
section parallel to joists

INSTALLATION OF STEELFORMS AND CENTERING BY CECO WHEN CENTERING IS CONTRACTED BY CECO

INSTALLATION BY OTHERS

SEE PAGE 8 FOR CONCRETE QUANTITY TABLE

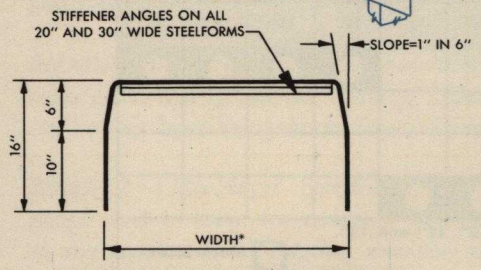
ADJUSTABLE TYPE


3-FT. TAPERED ENDFORMS ARE USED WHERE ADDITIONAL CONCRETE IS REQUIRED FOR SHEAR AND NEGATIVE MOMENT AT SUPPORTS FOR CONTINUOUS JOISTS. EACH SIDE OF THE 20" WIDE FORM TAPERS 2" IN THE 3' LENGTH PROVIDING A 4" INCREASE IN JOIST WIDTH. EACH SIDF OF THE 30" WIDE FORM TAPERS 2-1/2" IN THE 3' LENGTH PROVIDING A 5" INCREASE IN THE JOIST WIDTH.
3-FT. INTERMEDIATE STEELFORM
THE CENTER GAP IS CLOSED WITH 1', 2' OR 3'-LONG INTERMEDIATES WHEN USING REGULAR WIDTH FORMS. THE SPECIAL 10" AND 15"-WIDE FILLER WIDTHS ARE CLOSED WITH 3-FT. INTERMEDIATES BY OVER LAPPING WHERE NECESSARY.
STRAIGHT ENDFORMS ARE USED AT ALL HEADERS NOT REQUIRING TAPERED ENDFORMS
NOTE: ALL LAPS ARE 1"MIN. & 5" MAX. FOR REGULAR WIDTH STEELFORMS.
JOIST SOFFIT FORM
HEADER FOR TEE-HEAD OF BEAM
HEADER FOR BRIDGING JOISTS
CECO-MEYER ADJUSTABLE SHORES
WEDGE OR FISHTAIL FOR TAPERED ENDFORM
CECO-MEYER ADJUSTABLE STEEL SHORE. WHERE THIS ARRANGEMENT WOULD RESULT IN USING TOO MANY SHORES, PARTICULARLY IN THE CASE OF THE 20"-WIDE STEELFORMS, THE ADJUSTABLE STEEL SHORES ARE PLACED UNDER STRINGERS WHICH SUPPORT THE JOIST SOFFIT FORMS.
BEAM FORM

INSTALLATION OF STEELFORMS AND CENTERING BY CECO WHEN CENTERING IS CONTRACTED BY CECO

INSTALLATION BY OTHERS

TYPICAL CROSS SECTION
(all widths and depths are outside dimensions)



*REGULAR WIDTHS, FOR FORMING REGULARLY SPACED JOISTS,=20" AND 30".

*FILLER WIDTHS, FOR USE ONLY IN FILLING OUT NON-MODULAR BAYS AND SPACES,=10" AND 15".

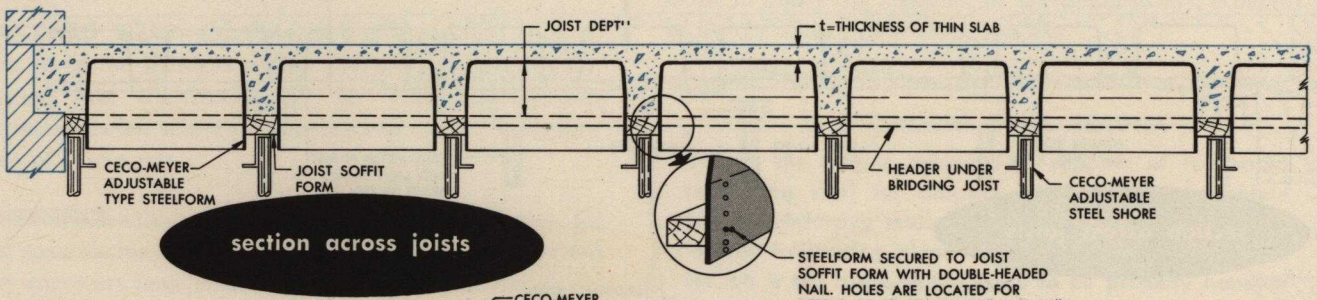
STEELFORM SIZES

LENGTH ↓ / WIDTH →	INTERMEDIATES 10"	INTERMEDIATES 15"	INTERMEDIATES 20"	INTERMEDIATES 30"	ENDFORMS Tapered 20"	ENDFORMS Tapered 30"	ENDFORMS Straight 10"	ENDFORMS Straight 15"	ENDFORMS Straight 20"	ENDFORMS Straight 30"
1'			●	●			●	●	●	●
2'			●	●						
3'	●	●	●	●	●	●				

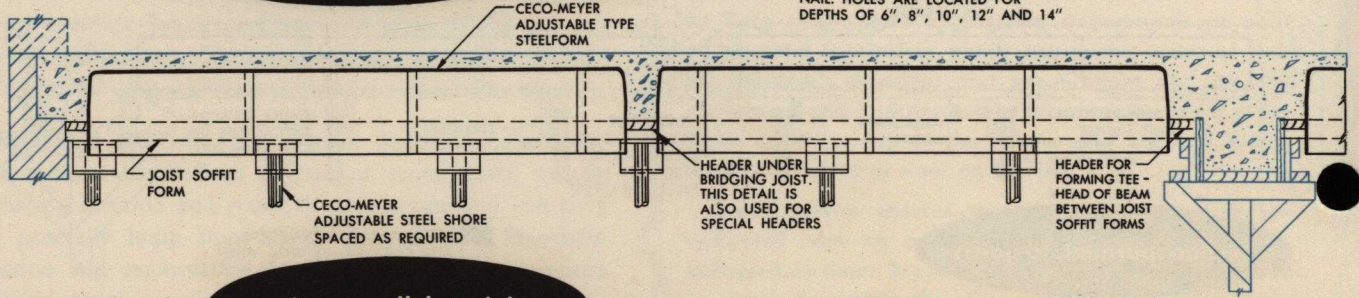
Any of the 6", 8", 10", 12" and 14" standard depths can be formed with each Steelform as shown on page 25.

All sizes shown are made of 14 gauge steel.

● Stock Sizes


JOIST DEPT"
t=THICKNESS OF THIN SLAB
CECO-MEYER ADJUSTABLE TYPE STEELFORM
JOIST SOFFIT FORM
HEADER UNDER BRIDGING JOIST
CECO-MEYER ADJUSTABLE STEEL SHORE
STEELFORM SECURED TO JOIST SOFFIT FORM WITH DOUBLE-HEADED NAIL. HOLES ARE LOCATED FOR DEPTHS OF 6", 8", 10", 12" AND 14"

section across joists


CECO-MEYER ADJUSTABLE TYPE STEELFORM
JOIST SOFFIT FORM
CECO-MEYER ADJUSTABLE STEEL SHORE SPACED AS REQUIRED
HEADER UNDER BRIDGING JOIST. THIS DETAIL IS ALSO USED FOR SPECIAL HEADERS
HEADER FOR FORMING TEE-HEAD OF BEAM BETWEEN JOIST SOFFIT FORMS

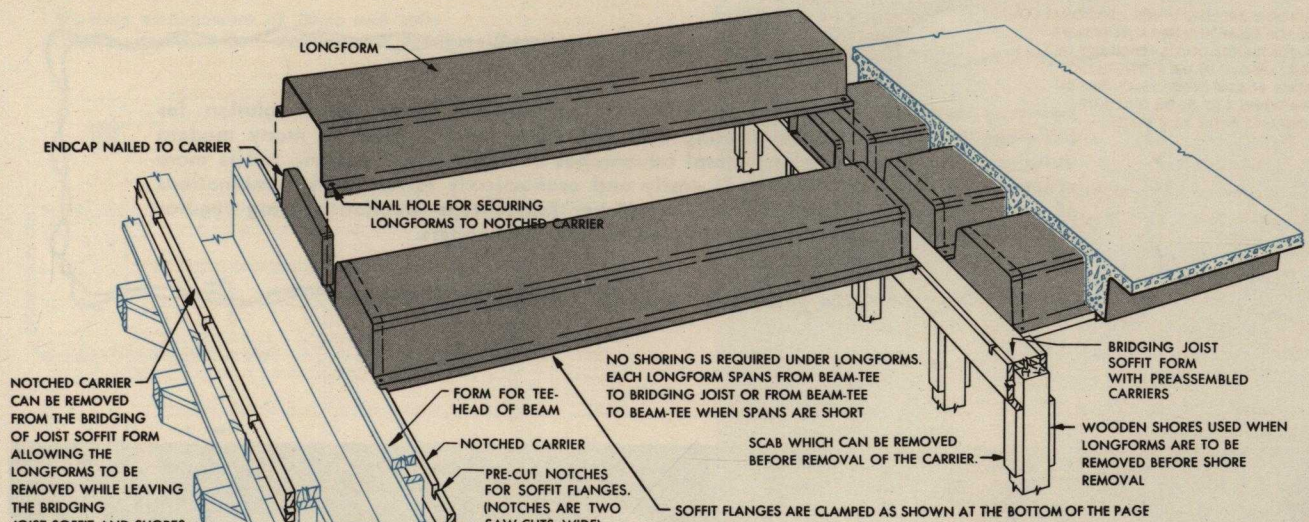
section parallel to joists

SEE PAGE 8 FOR CONCRETE QUANTITY TABLE

INSTALLATION OF STEELFORMS AND CENTERING BY CECO WHEN CENTERING IS CONTRACTED BY CECO

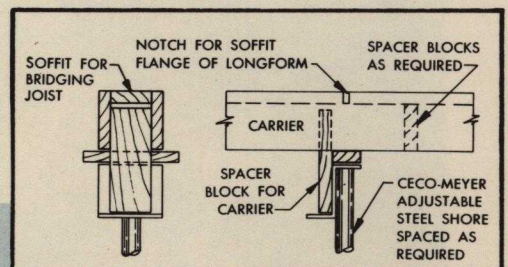
INSTALLATION BY OTHERS

LONGFORMS


LONGFORM
ENDCAP NAILED TO CARRIER
NAIL HOLE FOR SECURING LONGFORMS TO NOTCHED CARRIER
NOTCHED CARRIER CAN BE REMOVED FROM THE BRIDGING OF JOIST SOFFIT FORM ALLOWING THE LONGFORMS TO BE REMOVED WHILE LEAVING THE BRIDGING JOIST SOFFIT AND SHORES IN PLACE TO SUPPORT THE CONCRETE UNTIL IT HAS REACHED ITS PROPER STRENGTH FOR SHORE REMOVAL
FORM FOR TEE-HEAD OF BEAM
NOTCHED CARRIER
PRE-CUT NOTCHES FOR SOFFIT FLANGES. (NOTCHES ARE TWO SAW-CUTS WIDE)
BEAM FORM
NO SHORING IS REQUIRED UNDER LONGFORMS. EACH LONGFORM SPANS FROM BEAM-TEE TO BRIDGING JOIST OR FROM BEAM-TEE TO BEAM-TEE WHEN SPANS ARE SHORT
SCAB WHICH CAN BE REMOVED BEFORE REMOVAL OF THE CARRIER.
BRIDGING JOIST SOFFIT FORM WITH PREASSEMBLED CARRIERS
WOODEN SHORES USED WHEN LONGFORMS ARE TO BE REMOVED BEFORE SHORE REMOVAL
SOFFIT FLANGES ARE CLAMPED AS SHOWN AT THE BOTTOM OF THE PAGE

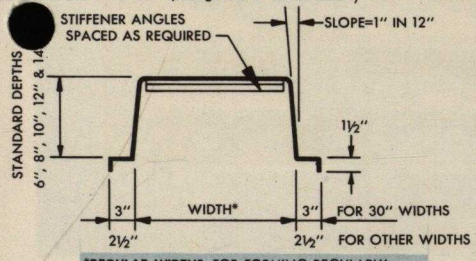
INSTALLATION BY CECO

INSTALLATION BY OTHERS


SOFFIT FOR BRIDGING JOIST
NOTCH FOR SOFFIT FLANGE OF LONGFORM
SPACER BLOCKS AS REQUIRED
CARRIER
SPACER BLOCK FOR CARRIER
CECO-MEYER ADJUSTABLE STEEL SHORE SPACED AS REQUIRED

DETAIL FOR USE OF CECO-MEYER ADJUSTABLE STEEL SHORES WHEN THE SHORES AND LONGFORMS ARE TO BE REMOVED AT THE SAME TIME. THE CARRIER ASSEMBLY CAN REMAIN INTACT BETWEEN USES.

TYPICAL CROSS SECTION
(all widths and depths are outside dimensions)
(Joist widths are 6" for 30" spacings and 5" for all others)



*REGULAR WIDTHS, FOR FORMING REGULARLY SPACED JOISTS,=20" AND 30".

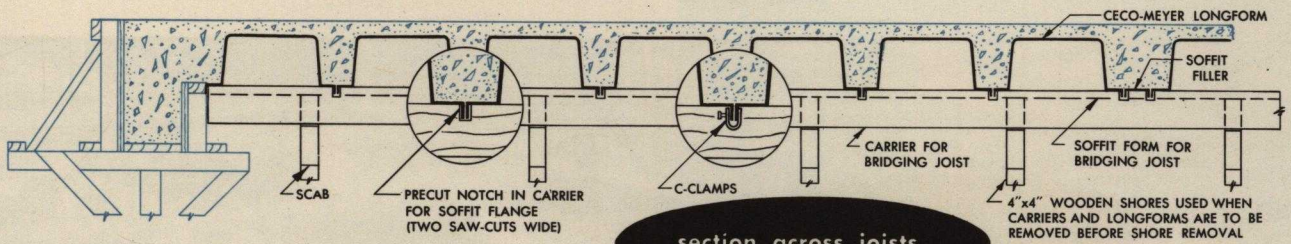
*FILLER WIDTHS, FOR USE ONLY IN FILLING OUT NON-MODULAR BAYS AND SPACES,=10" AND 15".

LENGTH — Because Longforms must be custom made to exactly fit the span length of the structure, no attempt is made to standardize lengths. The usual maximum practical lengths are 12 feet between beam tees and/or bridging joists.

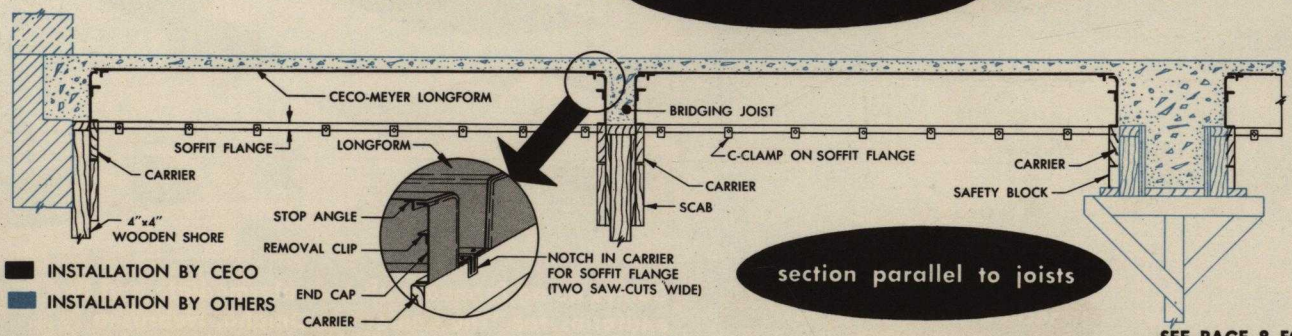
SHEET METAL GAUGES — All sheet steel used in fabricating Ceco-Meyer Longforms is 16 Ga. or heavier.

END TAPERS—Although Longforms can be made of one-piece construction with the standard end taper, it is not considered economical and is not recommended. Joists should be designed so as to avoid the use of tapered ends wherever possible.

TYPICAL SIZES AND SPACING — Although it is possible to use non-typical widths and depths for certain projects because the Longforms are custom-made, it is recommended that typical cross-sections be used wherever possible. Of particular importance is the repetition within a given project of the Longform sizes and lengths that are adopted.


CECO-MEYER LONGFORM
SOFFIT FILLER
SCAB
PRECUT NOTCH IN CARRIER FOR SOFFIT FLANGE (TWO SAW-CUTS WIDE)
C-CLAMPS
CARRIER FOR BRIDGING JOIST
SOFFIT FORM FOR BRIDGING JOIST
4"x4" WOODEN SHORES USED WHEN CARRIERS AND LONGFORMS ARE TO BE REMOVED BEFORE SHORE REMOVAL

section across joists



section parallel to joists

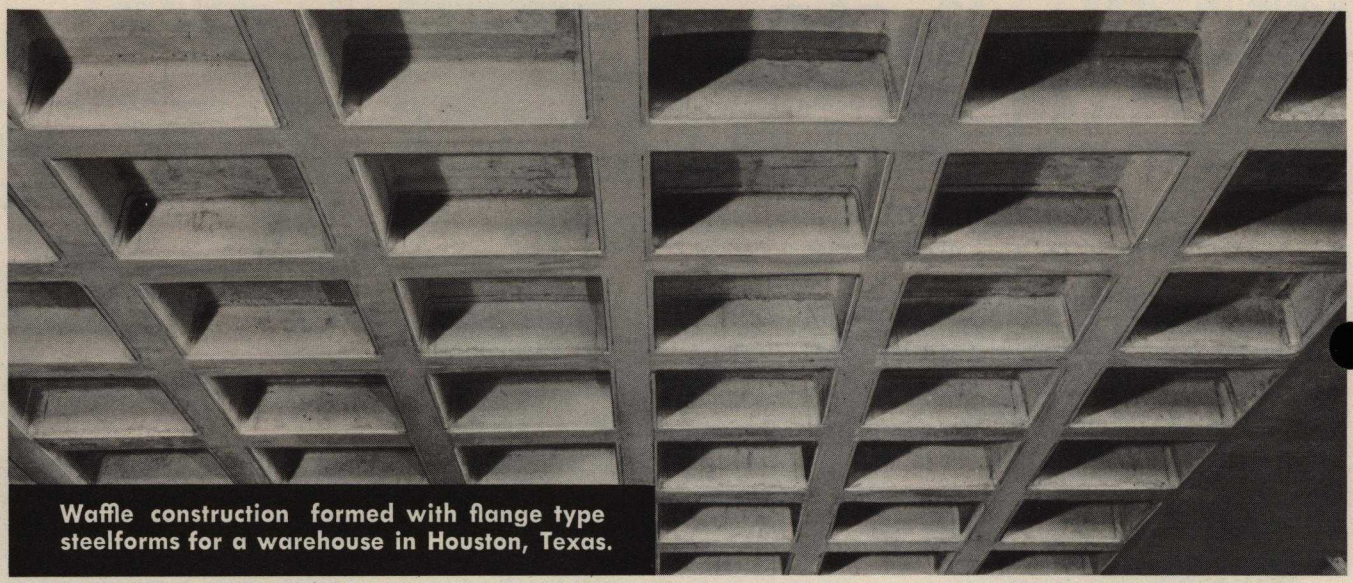
INSTALLATION BY CECO

INSTALLATION BY OTHERS

SEE PAGE 8 FOR CONCRETE QUANTITY TABLE

WAFFLE CONSTRUCTION

Two-way concrete joist construction (waffle construction) is an ideal solution for buildings with wide column spacing and light floor loads typical of many modern buildings. It has all of the structural advantages of flat-slab construction, but is more economical. Waffle construction is easily and economically formed with combinations of endforms and intermediates of Ceco-Meyer flange type steelforms using regular centering details except for the increased number of headers.



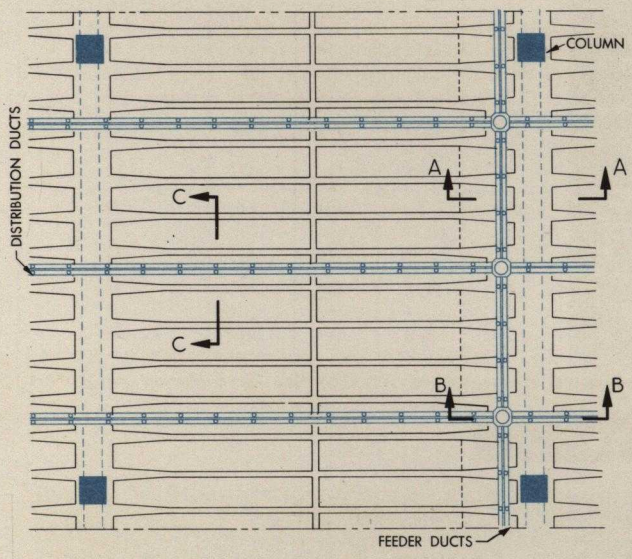
Waffle construction formed with flange type steelforms for a warehouse in Houston, Texas.

Domes being formed with one intermediate and two 6" endforms for "The Center" in Omaha, Nebraska.

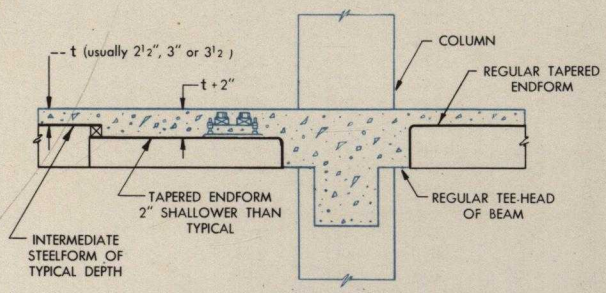
UNDERFLOOR ELECTRIFICATION with R/C Duct Floors

typical plan of R/C duct system

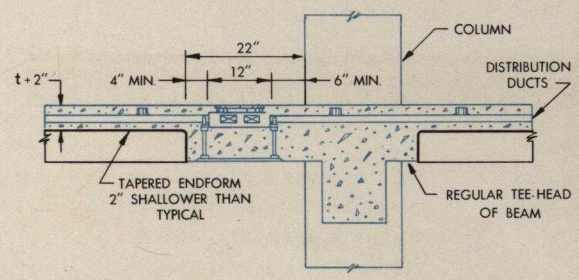
Showing arrangement of Ducts and Joist
(This arrangement can also be used for Three Duct Systems.)



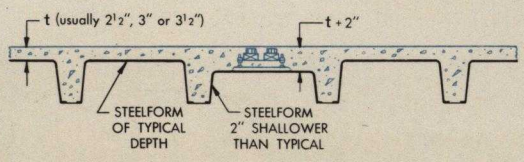
section AA through feeder ducts


t (usually 2½", 3" or 3½)
t + 2"
COLUMN
REGULAR TAPERED ENDFORM
TAPERED ENDFORM 2" SHALLOWER THAN TYPICAL
REGULAR TEE-HEAD OF BEAM
INTERMEDIATE STEELFORM OF TYPICAL DEPTH

section BB through junction box



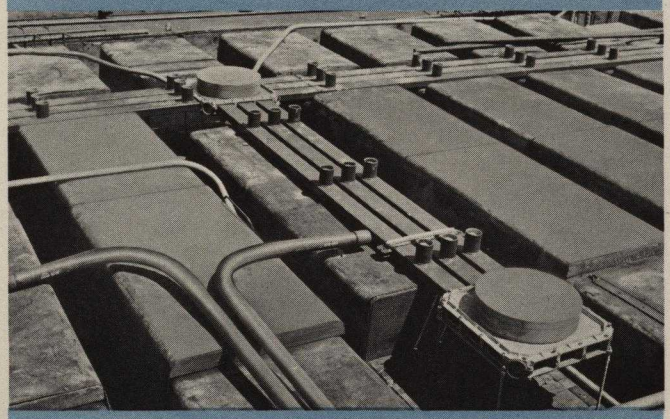
section CC through distribution ducts



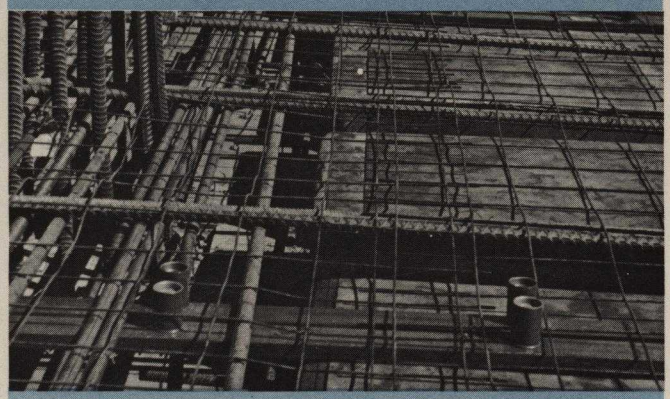
R/C Duct Floors can be easily and economically formed with either the Ceco-Meyer Flange Type or Adjustable Type Steelforms. All centering and Steelform placement details are standard except for using a 2" shallower Steelform, or row of Steelforms, beneath the ducts.

Structural design of R/C Duct Floors is conventional except for minor items such as adding small diagonal bars around junction boxes and for adding stirrups where ducts cross joist ends. Otherwise, the extra 2" of concrete depth compensates for the void in the duct and satisfies the minimum slab thickness requirements of the American Concrete Institute.

Maximum economy can be obtained by coordinating the duct layout with the joist arrangement as indicated on the typical plan of a column bay shown on the left. Wherever possible, distribution ducts should be placed over and parallel to a row of Steelforms. Feeder ducts should be placed perpendicular to the joist and over the Endforms. An alternate to the arrangement shown in Section A-A is to widen the beam-tee to include the feeder duct in the manner shown for the junction box in Section B-B.



A partially completed three-duct system with the ducts being installed on top of Steelforms. Note that the Steelforms are of conventional layout except that shallower Steelforms have been used under the ducts. Structural concrete will be placed around and over the ducts. After the top surface is troweled smooth, the junction box access plate can be adjusted to fit flush with the finish flooring.



The pre-set inserts are available in various heights from ¾" to 6" with a maximum recommended height of 3½". The details of most projects will allow the selection of insert heights so as to have the whole duct system at a constant elevation and still clear the top bars of the reinforcing steel.

concrete quantity tables

(Applies only for the areas over Ceco-Meyer Steelforms and joists between them. Bridging joists, special headers, beam-tees, etc., are not included.)

For Ceco-Meyer Flange Type Steelforms

20" WIDTHS

Depth of Steelform	Width of Joist	Cubic feet of concrete per square foot for various slab thicknesses			Additional concrete for tapered Endforms, cu. ft. per lin. ft. of bearing wall or beam (One side only).
		2"	2½"	3"	
6"	4"	.262	.304	.346	.13
	5"	.279	.321	.363	.12
	6"	.293	.335	.377	.12
8"	4"	.298	.340	.382	.17
	5"	.320	.362	.404	.16
	6"	.339	.381	.423	.16
10"	4"	.336	.378	.420	.21
	5"	.363	.405	.447	.20
	6"	.387	.429	.471	.19
12"	4"	.377	.419	.461	.25
	5"	.408	.450	.492	.24
	6"	.437	.479	.521	.23
14"	4"	.420	.462	.504	.29
	5"	.456	.498	.540	.28
	6"	.490	.532	.574	.27

30" WIDTHS

Depth of Steelform	Width of Joist	Cubic feet of concrete per square foot for various slab thicknesses			Additional concrete for tapered Endforms, cu. ft. per lin. ft. of bearing wall or beam (One side only).
		2½"	3"	3½"	
6"	5"	.293	.334	.374	.11
	6"	.304	.346	.387	.11
	7"	.315	.357	.398	.11
8"	5"	.322	.364	.405	.15
	6"	.338	.380	.421	.15
	7"	.351	.392	.434	.14
10"	5"	.353	.395	.436	.19
	6"	.372	.414	.455	.18
	7"	.389	.430	.472	.18
12"	5"	.386	.427	.469	.22
	6"	.408	.450	.491	.22
	7"	.430	.470	.512	.21
14"	5"	.420	.460	.493	.26
	6"	.447	.488	.530	.25
	7"	.470	.511	.553	.24

(The figures printed in blue are for floors formed by standard sizes of the Ceco-Meyer Longforms.)

For Ceco-Meyer Adjustable Steelforms

20" WIDTHS

Depth of Steelform	Width of Joist	Cubic feet of concrete per square foot of floor for various slab thicknesses			Additional concrete for Tapered Endforms, cu. ft. per lin. foot of bearing wall or beam (One side only)
		2"	2½"	3"	
6"	3½"	.262	.304	.345	.13
	4½"	.279	.321	.362	.12
	5½"	.295	.337	.378	.12
8"	3½"	.289	.329	.370	.17
	4½"	.309	.350	.393	.16
	5½"	.331	.372	.414	.16
10"	3½"	.312	.353	.395	.21
	4½"	.340	.381	.424	.20
	5½"	.367	.408	.450	.19
12"	3½"	.336	.378	.420	.25
	4½"	.371	.412	.455	.24
	5½"	.403	.444	.486	.23
14"	3½"	.361	.403	.444	.29
	4½"	.402	.443	.485	.28
	5½"	.438	.480	.522	.27

30" WIDTHS

Depth of Steelform	Width of Joist	Cubic feet of concrete pes square foot of floor for various slab thicknesses			Additional concrete for Tapered Endforms, cu. ft. per lin. foot of bearing wall or beam (One side only)
		2½"	3"	3½"	
6"	5½"	.300	.341	.383	.11
	6½"	.311	.353	.395	.11
	7½"	.322	.364	.406	.11
8"	5½"	.326	.368	.408	.15
	6½"	.341	.383	.424	.15
	7½"	.355	.397	.438	.14
10"	5½"	.352	.394	.434	.19
	6½"	.371	.413	.454	.18
	7½"	.389	.430	.472	.18
12"	5½"	.378	.420	.461	.22
	6½"	.401	.443	.484	.22
	7½"	.422	.464	.505	.21
14"	5½"	.404	.446	.486	.26
	6½"	.430	.472	.514	.25
	7½"	.456	.497	.539	.24

For Ceco-Meyer Longforms

See figures printed in blue in the table above for Ceco-Meyer Flange Type Steelforms.

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